**EGG-citing Osmosis EGG-speriment**

**Introduction**: Osmosis is the diffusion of water across a semi-permeable membrane. A semi-permeable membrane is a barrier which only allows certain materials to cross. In the case of this demo, the material which is able to cross the membrane is water. Water travels through the membrane from an area of \_\_\_\_\_\_\_\_\_ solvent concentration to an area of \_\_\_\_\_\_\_\_ solvent concentration. Osmosis is important in maintaining the function and health of the cells. It allows for the maintenance of an internal steady state even when the environment around the cell is changing.

**Questions**:

1. What happens to an egg when we place it in vinegar for 48 hours? Why?

1. Which part of the egg represents the semi-permeable membrane?

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| 1. What happens when we place the egg in corn syrup? | | |
| Predict | Observe | Explain |
|  |  |  |

1. Describe what the terms isotonic, hypertonic and hypotonic mean. Which solution represents the hypertonic environment and which represents the hypotonic environment?

**EGG-stension questions**:

1. Why do grocery stores spray their fresh produce with water?
2. If a shipwrecked crew drank salt water, they could die. Explain why.
3. If a bowl of fresh strawberries is sprinkled with sugar, a few minutes later they will be covered with juice. Explain why this happens.